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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22801

7590

10/30/2008

EXAMINER

CHANKONG, DOHM

ART UNIT

PAPER NUMBER

2452

DATE MAILED: 10/30/2008

LEE & HAYES PLLC 601 W Riverside Avenue Suite 1400 SPOKANE, WA 99201

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722.181	11/24/2003	Tad Dennis Brockway	MS1-1787US	7006

TITLE OF INVENTION: SEAMLESS DISCOVERY OF WORKSTATION-INSTALLED REMOTE APPLICATIONS FROM AN EXTRANET

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/30/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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LEE & HAYE 601 W Riverside Suite 1400	S PLLC e Avenue	/2008			Cert	ificate	of Mailing or Transr	nission deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
SPOKANE, WA	x 99201							(Depositor's name)
								(Signature)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/722,181 ITLE OF INVENTION	11/24/2003 : SEAMLESS DISCOVI	ERY OF WORKSTATIO	Tad Dennis Brockw N-INSTALLED REM	•	APPLICATIONS		MS1-1787US M AN EXTRANET	7006
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	01/30/2009
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Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to					
PLEASE NOTE: Unl recordation as set forti (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on th T a substitute for filing (B) RESIDENCE: (C	ne par g an a	tent. If an assigne ssignment. and STATE OR C	OUNT	RY)	ocument has been filed for up entity
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10/722,181	11/24/2003	Tad Dennis Brockway	MS1-1787US	7006	
22801 7.	590 10/30/2008		EXAMINER		
LEE & HAYES PLLC		CHANKONG, DOHM			
601 W Riverside A	Avenue		ART UNIT	PAPER NUMBER	
	rvenue		71KT 014T	TAMERITOMBER	
Suite 1400 SPOKANE, WA 9			2452 DATE MAILED: 10/30/200		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/722,181	BROCKWAY ET AL.		
Notice of Allowability	Examiner	Art Unit		
	DOHM CHANKONG	2452		
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due course.		
1. This communication is responsive to Applicant's amendm	<u>ent, filed on 7/16/2008</u> .			
2. The allowed claim(s) is/are <u>1,2,5-8,11-14,17-20,23 and 2</u>	<u>4</u> .			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority of a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>		) or (f).		
2. Certified copies of the priority documents have	e been received in Applicat	ion No		
3. Copies of the certified copies of the priority de	ocuments have been receiv	ed in this national stage application fron	n the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requireme	nts	
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			OF	
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ust be submitted.			
(a) ☐ including changes required by the Notice of Draftspel	rson's Patent Drawing Revi	ew ( PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examined Paper No./Mail Date	's Amendment / Comment	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in			f	
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			l.	
Attachment(s)	_			
1. Notice of References Cited (PTO-892)		nformal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), b./Mail Date		
3. Information Disclosure Statements (PTO/SB/08),	7. ⊠ Examiner	s Amendment/Comment		
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. <b>⊠</b> Examiner	s Statement of Reasons for Allowance		
of Biological Material	9.	<u></u> .		
/Dohm Chankong/				
Primary Examiner, Art Unit 2452				

Application/Control Number: 10/722,181 Page 2

Art Unit: 2452

#### **EXAMINER'S AMENDMENT**

1. Claims 1-2, 5-8, 11-14, 17-20, and 23-24 are presented for further examination.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jason Lindh on 10/27/2008.

3. The application has been amended as follows:

Claim 1 (Currently Amended): A method implemented at least in part by a computing device for enumerating applications by a remote client computer, the applications being deployed in an Intranet, the remote client computer being external to the Intranet, the method comprising:

sending a remote application discovery request from the remote client computer to a Web service using simple object access protocol (SOAP), the Web service being deployed on a remote applications publication (RAP) Web server in the Intranet, the remote application discovery request being sent to the Web service by the remote client computer via a public network coupling the remote client computer to the Web server; and

responsive to the sending, receiving a discovery response from the Web service, the discovery response identifying an aggregate list of remote applications across multiple accessor

modules installed on the Intranet for terminal server (TS) based access by a user of the remote client computer. wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a get application request to a System Management Server (SMS) having a domain, wherein, upon receiving the get application request, the SMS evaluates whether the remote client computer is associated with any applications deployed within the domain of the SMS;

if the remote client computer is associated with at least an application, the SMS sends a get application response to the SMS accessor, wherein the get application response identifies the associated application and the an associated application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application request to a directory service, wherein the directory service, responsive to receiving the get application request, evaluates an installed application-to-user mapping to determine whether the remote client computer is associated with installed applications, wherein, upon completion of the evaluation, the directory service sends an evaluation and any respective installation point of any associated installed application to the Web service; and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet address of the office computer assigned to a user associated with the remote client computer and sends a get resource request to directory service, wherein the get resource request indicates a corporate identity of the user, the directory service, responsive to

receiving the get application request, communicates the network Intranet address of the office computer to the PC accessor.

Claim 7 (Currently Amended): A computer-readable storage medium comprising computer-executable instructions for enumerating applications by a remote client computer, the applications being deployed in an Intranet, the remote client computer being external to the Intranet, the computer-executable instructions comprising instructions for:

sending a remote application discovery request from the remote client computer to a Web service using simple object access protocol (SOAP), the Web service being deployed on a remote applications publication (RAP) Web server in the Intranet, the remote application discovery request being sent to the Web service by the remote client computer via a public network coupling the remote client computer to the Web server; and

responsive to the sending, receiving a discovery response from the Web service, the discovery response identifying an aggregate list of remote applications across multiple accessor modules installed on the Intranet for terminal server (TS) based access by a user of the remote client computer, wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a get application request to a System Management Server (SMS) having a domain, wherein, upon receiving the get application request, the SMS evaluates whether the remote client computer is associated with any applications deployed within the domain of the SMS;

Application/Control Number: 10/722,181

Art Unit: 2452

Page 5

if the remote client computer is associated with at least an application, the SMS sends a get application response to the SMS accessor, wherein the get application response identifies the associated application and the an associated application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application request to a directory service, wherein the directory service, responsive to receiving the get application request, evaluates an installed application-to-user mapping to determine whether the remote client computer is associated with installed applications, wherein, upon completion of the evaluation, the directory service sends an evaluation and any respective installation point of any associated installed application to the Web service; and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet address of the office computer assigned to a user associated with the remote client computer and sends a get resource request to directory service, wherein the get resource request indicates a corporate identity of the user, the directory service, responsive to receiving the get application request, communicates the network Intranet address of the office computer to the PC accessor.

Claim 8 (Currently Amended): A computer-readable storage medium as recited in claim 7, wherein the instructions for sending and receiving are independent of a Virtual Private Network connection between the remote client computer and the Intranet.

Claim 11. (Currently Amended) A computer-readable storage medium as recited in claim 7, wherein the computer-executable instructions further comprise, responsive to receiving the discovery response from the Web service, instructions for presenting respective shortcuts to the user, each shortcut corresponding to an individual one of remote applications identified in the discovery response, each shortcut being selectable by the user to invoke a terminal service, the terminal service executing a corresponding remote application on an associated installation point on the Intranet.

12. (Original) A computer-readable storage medium as recited in claim 11, wherein the shortcuts represent a merged view of the remote applications, the merged view being independent of respective ones of one or more installations points on the Intranet.

Claim 13 (Currently Amended): A remote client computer for enumerating applications deployed in an Intranet, the remote client computer being deployed external to the Intranet, the remote client computer comprising:

- a processor; and
- a memory coupled to the processor, the memory comprising computer-program instructions executable by the processor and comprising instructions for:

sending a remote application discovery request from the remote client computer to a Web service using simple object access protocol (SOAP), the Web service being deployed on a remote applications publication (RAP) Web server in the Intranet, the remote application

discovery request being sent to the Web service by the remote client computer via a public network coupling the remote client computer to the Web server; and

responsive to the sending, receiving a discovery response from the Web service, the discovery response identifying an aggregate list of remote applications across multiple accessor modules installed on the Intranet for terminal server (TS) based access by a user of the remote client computer, wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a get application request to a System Management Server (SMS) having a domain, wherein, upon receiving the get application request, the SMS evaluates whether the remote client computer is associated with any applications deployed within the domain of the SMS;

if the remote client computer is associated with at least an application, the SMS sends a get application response to the SMS accessor, wherein the get application response identifies the associated application and the an associated application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application request to a directory service, wherein the directory service, responsive to receiving the get application request, evaluates an installed application-to-user mapping to determine whether the remote client computer is associated with installed applications, wherein, upon completion of the evaluation, the directory service sends an evaluation and any respective installation point of any associated installed application to the Web service; and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet address of the office computer assigned to a user associated with the remote client computer and sends a get resource request to directory service, wherein the get resource request indicates a corporate identity of the user, the directory service, responsive to receiving the get application request, communicates the network Intranet address of the office computer to the PC accessor.

Claim 19 (Currently amended): A remote client computer for enumerating applications deployed in an Intranet, the remote client computer being deployed external to the Intranet, the remote client computer comprising:

means for sending a remote application discovery request from the remote client computer to a Web service using simple object access protocol (SOAP), the Web service being deployed on a remote applications publication (RAP) Web server in the Intranet, the remote application discovery request being sent to the Web service by the remote client computer via a public network coupling the remote client computer to the Web server; and

means for responsive to the sending, receiving a discovery response from the Web service, the discovery response identifying an aggregate list of remote applications across multiple accessor modules installed on the Intranet for terminal server (TS) based access by a user of the remote client computer, wherein the multiple accessor modules comprise:

a System Management Server (SMS) accessor, wherein the SMS accessor sends a get application request to a System Management Server (SMS) having a domain, wherein, upon receiving the get application request, the SMS evaluates whether the

remote client computer is associated with any applications deployed within the domain of the SMS;

if the remote client computer is associated with at least an application, the SMS sends a get application response to the SMS accessor, wherein the get application response identifies the associated application and the an associated application installation point;

a Directory Service Accessor (DSA), wherein the DSA sends a get application request to a directory service, wherein the directory service, responsive to receiving the get application request, evaluates an installed application-to-user mapping to determine whether the remote client computer is associated with installed applications, wherein, upon completion of the evaluation, the directory service sends an evaluation and any respective installation point of any associated installed application to the Web service; and

a Personal Computer (PC) accessor, wherein the PC accessor identifies an Intranet address of the office computer assigned to a user associated with the remote client computer and sends a get resource request to directory service, wherein the get resource request indicates a corporate identity of the user, the directory service, responsive to receiving the get application request, communicates the network Intranet address of the office computer to the PC accessor.

- 4. The following is an examiner's statement of reasons for allowance:
  - Claims 1, 7, 13, and 19 distinguish themselves over the prior art by delineating a method,

applications from an Intranet and associated with the client computer using specific modules to access the application sources. The claims state the need for three separate modules used for accessing three different elements in the Intranet where the elements provide information regarding whether the remote client is associated with any applications in the domain of a server management server, installed applications of the Intranet, and whether the client is associated with an Intranet address of an office computer and where the information is culled from different sources in the Intranet. Other important feature of the claim is the sending of associated application installation points. Based on the combination of these claimed features, the claims show a patentable distinction over the prior art. Furthermore, there is no indication from the prior art that it would have been obvious to discover and aggregate remote applications using at least the three specific and separate modules in the fashion presented in the independent claims. Claims 2, 5, 6, 8, 11, 12, 14, 17, 18, 20, and 23-24 are allowed based on their dependence on the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Application/Control Number: 10/722,181 Page 11

Art Unit: 2452

DeBettencourt et al, US 6279001;

Slaughter et al, US 6898618;

Slaughter et al, US 6970869;

Belfiore et al, US 6990514;

Dyla et al, US Publication 2002|0116454;

Fletcher et al, US Publication 2003|0135628;

Sturtevant et al, US 7072936;

Wookey et al, US 7240109;

Harjanto, US 7296022.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DOHM CHANKONG whose telephone number is (571)272-3942. The examiner can normally be reached on Monday-Friday [8:30 AM to 4:30 PM].

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bunjob Jaroenchonwanit can be reached on 571.272.3913. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/722,181 Page 12

Art Unit: 2452

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dohm Chankong/ Primary Examiner, Art Unit 2452